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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/708,649	03/17/2004	Kamalesh K. Srivastava	FIS920030359US1	2648
29371 7	590 05/02/2005		EXAMI	NER
CANTOR COLBURN LLP 55 GRIFFIN ROAD SOUTH			DOAN, TH	ERESA T
BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
•			2814	
			DATE MAILED: 05/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/708,649	SRIVASTAVA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Theresa Ţ. Doan	2814				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I.136(a). In no event, however, may a seply within the statutory minimum of the distribution of the will apply and will expire SIX (6) Moute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
• —	'					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ciosed in accordance with the practice under	Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.				
Disposition of Claims						
l)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
7) Claim(s) is/are rejected.	」 Claim(s) is/are rejected. □ Claim(s) is/are objected to					
8) Claim(s) 1-20 are subject to restriction and/o	r election requirement.					
	4					
Application Papers						
9) The specification is objected to by the Examir	<u></u>					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the B	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document copies of the priority document copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the priority do	nts have been received. nts have been received in iority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Report No(e)/Mail Date						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Other:						
S. Patent and Trademark Office						

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Election/Restrictions

Claims 1-20 directed to semiconductor device are restricted as follows:

This application contains claims 1-20 directed to the following patentably distinct species of the claimed invention:

- a) Group I: Claims 1-5: A method for forming an interconnect structure having a first patterned opening of a first diameter and a second patterned opening of a second diameter wherein the second diameter is larger than the first diameter.
- b) Group II: Claims 6-20: A method for forming an interconnect structure comprising annealing the semiconductor device as to cause atoms from the barrier layer to diffuse into the seed layer there underneath, wherein the annealing causes diffused regions of the seed layer to have an altered electrical resistivity and electrode potential with respect to undiffused regions of the seed layer.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of claim is generic.

Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Theresa T Doan whose telephone number is (571) 272-1704. The examiner can normally be reached on Monday to Thursday from 8:00AM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WAEL FAHMY can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TD April 22, 2005.

PHAT X. CAO PRIMARY EXAMINER

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